

WEST Search History

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DATE: Monday, January 23, 2006

Hide?	Set Name	Query	Hit Count
		<i>DB=PGPB; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L9	L7 and dipeptidase	44
<input type="checkbox"/>	L8	L7 and aminodipeptidase	0
<input type="checkbox"/>	L7	(Aspergillus oryzae or a. oryzae)	902
		<i>DB=USPT,USOC,EPAB,JPAB,DWPI; THES=ASSIGNEE; PLUR=YES; OP=ADJ</i>	
<input type="checkbox"/>	L6	L4 and l2	35
<input type="checkbox"/>	L5	L4 and l3	0
<input type="checkbox"/>	L4	(Aspergillus oryzae or a. oryzae)	3004
<input type="checkbox"/>	L3	aminodipeptidase	22
<input type="checkbox"/>	L2	dipeptidase	626
<input type="checkbox"/>	L1	(Aspergillus oryzae or a. oryzae) and aminodipeptidase	0

END OF SEARCH HISTORY

Prnt art

XP 002047737

1/1 - (C) WPI / DERWENT
AN - 95-202831 c27!
AP - JP930266467 931025
PR - JP930266467 931025
TI - Enzyme compsn useful for prepn of hydrolysed food protein - contains prolyl endo:peptidase, prolidase and prolinase obtd from same microbe e.g. Pseudomonas species.
IW - ENZYME COMPOSITION USEFUL PREPARATION HYDROLYSIS FOOD PROTEIN CONTAIN PROLYL ENDO PEPTIDASE OBTAIN MICROBE PSEUDOMONAS SPECIES
PA - (ASAHI) ASAHI KASEI KOGYO KK
PN - JP7115969 A 950509 DW9527 C12N9/52 007pp
ORD - 1995-05-09
IC - A23J3/06 ; A23J3/34 ; A23L1/227 ; C12N9/52
FS - CPI
DC - D13 D16
AB - J07115969 An enzyme compsn contains prolyl endopeptidase, prolidase and prolinase originated from the same microbe. The microbe is pref a Pseudomonas genus or a Streptomyces genus. Also claimed is the prepn of a hydrolysed protein in which a food protein, a partially digested prod of a food protein and a peptide originated from a food protein, are digested by the enzyme.
- ADVANTAGE - The protein is highly hydrolysed and the flavouring activity is enhanced. The ratio of free aminoacids having high flavouring activity such as aspartic acid, threonine, glutamic acid, proline and glycine is increased to provide a hydrolysed protein having high flavouring quality.
- In an example, Pseudomonas sp KU-22 was cultured and the microbe body was recovered by centrifugation and dialysed to give crude KU-22 enzyme soln. It has a prolyl endopeptidase activity of 0.14 U/ml, a prolidase activity of 0.64 U/ml and a prolinase activity of 1.3 U/ml. A crude HA-36 enzyme soln was also prepd from a culture of Streptomyces xanthophaeus HA-36. It has a prolyl endopeptidase activity of 0.073 U/ml, a prolidase activity of 0.039 U/ml and a prolinase activity of 0.070 U/ml. A pg bone extract was treated with alkalase and the product was hydrolysed by the above crude KU-22 and HA-36 enzyme soln. Their decomposition rate was respectively 30.9 and 29.5%, compared to 22.7% for a control using distilled water. (Dwg.0/0)

Hit List

First Hit

Search Results - Record(s) 1 through 30 of 35 returned.

☐ 1. Document ID: US 6951750 B2

Using default format because multiple data bases are involved.

L6: Entry 1 of 35

File: USPT

Oct 4, 2005

US-PAT-NO: 6951750

DOCUMENT-IDENTIFIER: US 6951750 B2

TITLE: Prolidase and its gene and method for producing prolidase

DATE-ISSUED: October 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ito; Kotaro	Chiba			JP
Nakahara; Takeharu	Chiba			JP
Koyama; Yasuji	Chiba			JP
Matsuda; Toshifumi	Chiba			JP
Takahashi; Tadashi	Chiba			JP
Matsushima; Kenichiro	Chiba			JP
Umitsuki; Genryou	Chiba			JP
Masuda; Tsutomu	Chiba			JP

US-CL-CURRENT: 435/225; 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 6951749 B1

L6: Entry 2 of 35

File: USPT

Oct 4, 2005

US-PAT-NO: 6951749

DOCUMENT-IDENTIFIER: US 6951749 B1

TITLE: Carboxypeptidases and nucleic acids encoding same

DATE-ISSUED: October 4, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blinkovsky; Alexander	Davis	CA		

Berka; Randy	Davis	CA	
Rey; Michael	Davis	CA	
Golightly; Elizabeth	Davis	CA	
Klotz; Alan	Dixon	CA	
Mathisen; Thomas Erik	Copenhagen		DK
Dambmann; Claus	S.o slashed.borg		DK

US-CL-CURRENT: 435/212; 435/252.3, 435/252.33, 435/254.1, 435/254.2, 435/320.1,
435/325, 435/348, 435/419, 536/23.2

ABSTRACT:

The present invention relates to polypeptides having carboxypeptidase activity and isolated nucleic acid sequences encoding the polypeptides. The invention also relates to nucleic acid constructs, vectors, and host cells comprising the nucleic acid sequences as well as methods for producing the polypeptides. The present invention further relates to methods of obtaining protein hydrolysates useful as flavor improving agents.

15 Claims, 5 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 6927054 B2

L6: Entry 3 of 35

File: USPT

Aug 9, 2005

US-PAT-NO: 6927054

DOCUMENT-IDENTIFIER: US 6927054 B2

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: August 9, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Webster; Marion	San Francisco	CA		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/219; 435/183, 435/212, 435/252.3, 435/320.1, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid

molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

4 Claims, 6 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 6902887 B1

L6: Entry 4 of 35

File: USPT

Jun 7, 2005

US-PAT-NO: 6902887
DOCUMENT-IDENTIFIER: US 6902887 B1

TITLE: Methods for monitoring multiple gene expression

DATE-ISSUED: June 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Berka; Randy M.	Davis	CA		
Rey; Michael W.	Davis	CA		
Shuster; Jeffrey R.	Davis	CA		
Kauppinen; Sakari	Smoerum			DK
Clausen; Ib Groth	Hillerod			DK
Olsen; Peter Bjarke	Copenhagen			DK

US-CL-CURRENT: 435/6; 536/23.7

ABSTRACT:

The present invention relates to methods for monitoring differential expression of a plurality of genes in a first filamentous fungal cell relative to expression of the same genes in one or more second filamentous fungal cells using microarrays containing filamentous fungal expressed sequenced tags. The present invention also relates to filamentous fungal expressed sequenced tags and to computer readable media and substrates containing such expressed sequenced tags for monitoring expression of a plurality of genes in filamentous fungal cells.

8 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 6899876 B2

L6: Entry 5 of 35

File: USPT

May 31, 2005

US-PAT-NO: 6899876
DOCUMENT-IDENTIFIER: US 6899876 B2

TITLE: Compositions and methods relating to reduction of symptoms of autism

DATE-ISSUED: May 31, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Houston; Devin B.	Forsyth	MO		

US-CL-CURRENT: 424/94.63; 435/212, 435/225

ABSTRACT:

Methods and compositions that can reduce the symptoms of autism in a human patient comprising administering a physiologically effective amount of one or both of a purified casomorphin inhibitor selected from the group consisting of a casomorphinase and a casomorphin ligand, and a physiologically effective amount of a purified gluteomorphin inhibitor selected from the group consisting of a gluteomorphinase and a gluteomorphin ligand, to a human patient in sufficient quantities to reduce the effects of the autism. In some embodiments, the compositions and methods further comprise a physiologically effective amount of an enkephalin inhibitor, preferably an enkephalinase, and a physiologically effective amount of an endorphin inhibitor, preferably an endorphinase.

26 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 6. Document ID: US 6825025 B2

L6: Entry 6 of 35

File: USPT

Nov 30, 2004

US-PAT-NO: 6825025
DOCUMENT-IDENTIFIER: US 6825025 B2

TITLE: Isolated human zinc metalloprotease, nucleic acid molecules encoding said enzymes, and uses thereof

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Ming-Hui	Germantown	MD		
Yan; Chunhua	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/219, 435/252.3, 435/320.1, 435/325, 435/6, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the enzyme peptides, and methods of identifying modulators of the enzyme peptides.

12 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 7. Document ID: US 6825022 B2

L6: Entry 7 of 35

File: USPT

Nov 30, 2004

US-PAT-NO: 6825022

DOCUMENT-IDENTIFIER: US 6825022 B2

TITLE: Isolated human metalloprotease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Merkulov; Gennady V.	Baltimore	MD		
Ye; Jane	Boysds	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/219; 435/183, 435/195, 435/212, 435/226, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

17 Claims, 19 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 8. Document ID: US 6821514 B2

L6: Entry 8 of 35

File: USPT

Nov 23, 2004

US-PAT-NO: 6821514

DOCUMENT-IDENTIFIER: US 6821514 B2

TITLE: Compositions and methods relating to reduction of symptoms of autism

DATE-ISSUED: November 23, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Houston; Devin B.	Forsyth	MO		

US-CL-CURRENT: 424/94.63; 435/212, 435/225

ABSTRACT:

Methods and compositions that can reduce the symptoms of autism in a human patient comprising administering a physiologically effective amount of one or both of a purified casomorphin inhibitor selected from the group consisting of a casomorphinase and a casomorphin ligand, and a physiologically effective amount of a purified gluteomorphin inhibitor selected from the group consisting of a gluteomorphinase and a gluteomorphin ligand, to a human patient in sufficient quantities to reduce the effects of the autism. In some embodiments, the compositions and methods further comprise a physiologically effective amount of an enkephalin inhibitor, preferably an enkephalinase, and a physiologically effective amount of an endorphin inhibitor, preferably an endorphinase.

23 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMCC	Drawings
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☐ 9. Document ID: US 6818429 B2

L6: Entry 9 of 35

File: USPT

Nov 16, 2004

US-PAT-NO: 6818429

DOCUMENT-IDENTIFIER: US 6818429 B2

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: November 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gan; Weiniu	Gaithersburg	MD		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/222

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

5 Claims, 26 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 10. Document ID: US 6808708 B2

L6: Entry 10 of 35

File: USPT

Oct 26, 2004

US-PAT-NO: 6808708

DOCUMENT-IDENTIFIER: US 6808708 B2

TITLE: Compositions and methods relating to reduction of symptoms of autism

DATE-ISSUED: October 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Houston; Devin B.	Forsyth	MO		

US-CL-CURRENT: 424/94.63; 435/212, 435/225

ABSTRACT:

Methods and compositions that can reduce the symptoms of autism in a human patient comprising administering a physiologically effective amount of one or both of a purified casomorphin inhibitor selected from the group consisting of a casomorphinase and a casomorphin ligand, and a physiologically effective amount of a purified gluteomorphin inhibitor selected from the group consisting of a gluteomorphinase and a gluteomorphin ligand, to a human patient in sufficient quantities to reduce the effects of the autism. In some embodiments, the compositions and methods further comprise a physiologically effective amount of an enkephalin inhibitor, preferably an enkephalinase, and a physiologically effective amount of an endorphin inhibitor, preferably an endorphinase.

4 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw De
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☐ 11. Document ID: US 6800467 B1

L6: Entry 11 of 35

File: USPT

Oct 5, 2004

US-PAT-NO: 6800467

DOCUMENT-IDENTIFIER: US 6800467 B1

TITLE: Polypeptides having aminopeptidase activity and nucleic acids encoding same

DATE-ISSUED: October 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blinkovsky; Alexander	Davis	CA		
Brown; Kimberly	Elk Grove	CA		
Golightly; Elizabeth	Davis	CA		
Byun; Tony	Davis	CA		

US-CL-CURRENT: 435/183; 530/300, 530/350

ABSTRACT:

The present invention relates to isolated polypeptides having aminopeptidase activity and isolated nucleic acid sequences encoding the polypeptides. The invention also relates to nucleic acid constructs, vectors, and host cells comprising the nucleic acid sequences as well as methods for producing and using the polypeptides.

30 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw Data
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☐ 12. Document ID: US 6664093 B2

L6: Entry 12 of 35

File: USPT

Dec 16, 2003

US-PAT-NO: 6664093

DOCUMENT-IDENTIFIER: US 6664093 B2

TITLE: Isolated human zinc metalloprotease proteins

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Ming-Hui	Germantown	MD		
Yan; Chunhua	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		

Beasley; Ellen M.

Darnestown

MD

US-CL-CURRENT: [435/226](#); [435/219](#), [435/252.3](#), [435/320.1](#), [435/325](#), [435/6](#), [530/350](#)

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the enzyme peptides, and methods of identifying modulators of the enzyme peptides.

4 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 13. Document ID: US 6664092 B1

L6: Entry 13 of 35

File: USPT

Dec 16, 2003

US-PAT-NO: 6664092

DOCUMENT-IDENTIFIER: US 6664092 B1

TITLE: Polypeptides having dipeptidyl aminopeptidase activity and nucleic acids encoding same

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blinkovsky; Alexander	Davis	CA		
Brown; Kimberly	Elk Grove	CA		
Rey; Michael W.	Davis	CA		
Klotz; Alan	Dixon	CA		
Byun; Tony	Davis	CA		

US-CL-CURRENT: [435/212](#); [426/533](#), [426/549](#), [435/252.33](#), [435/254.3](#), [435/320.1](#), [536/23.1](#), [536/23.2](#), [536/23.74](#)

ABSTRACT:

The present invention relates to isolated polypeptides having dipeptidyl aminopeptidase activity and isolated nucleic acid sequences encoding the polypeptides. The invention also relates to nucleic acid constructs, vectors, and host cells comprising the nucleic acid sequences as well as methods for producing and using the polypeptides.

26 Claims, 4 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 6638751 B2

L6: Entry 14 of 35

File: USPT

Oct 28, 2003

US-PAT-NO: 6638751

DOCUMENT-IDENTIFIER: US 6638751 B2

TITLE: Isolated human zinc protease proteins

DATE-ISSUED: October 28, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beasley; Ellen M.	Rockville	MD		
Li; Zhenya	Rockville	MD		

US-CL-CURRENT: 435/226; 424/94.67, 435/219, 435/23, 435/252.3, 435/320.1, 435/325,
435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

4 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 15. Document ID: US 6620607 B1

L6: Entry 15 of 35

File: USPT

Sep 16, 2003

US-PAT-NO: 6620607

DOCUMENT-IDENTIFIER: US 6620607 B1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: September 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Guegler; Karl	Menlo Park	CA
Webster; Marion	San Francisco	CA
Yan; Chunhua	Boyds	MD
Shao; Wei	Frederick	MD
Ketchum; Karen A.	Germantown	MD
Di Francesco; Valentina	Rockville	MD
Beasley; Ellen M.	Darnestown	MD

US-CL-CURRENT: 435/226; 424/94.63, 435/219, 435/23, 435/69.1, 530/350, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

4 Claims, 7 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 42

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KVMC	Draw. Ds
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☐ 16. Document ID: US 6518055 B2

L6: Entry 16 of 35

File: USPT

Feb 11, 2003

US-PAT-NO: 6518055

DOCUMENT-IDENTIFIER: US 6518055 B2

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: February 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gan; Weiniu	Gaithersburg	MD		
Ye; Jane	Boyds	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/183, 435/195, 435/219, 435/252.3, 435/320.1, 435/69.1, 536/23.2, 536/23.5

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid

molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

23 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 35

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 6482630 B2

L6: Entry 17 of 35

File: USPT

Nov 19, 2002

US-PAT-NO: 6482630
DOCUMENT-IDENTIFIER: US 6482630 B2

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gan; Weiniu	Gaithersburg	MD		
Ye; Jane	Boyd	MD		
DiFrancesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/183, 435/195, 435/212, 435/219, 435/252.3, 435/320.1,
435/69.1, 536/23.2, 536/23.5

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

23 Claims, 3 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 13

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 6482629 B1

L6: Entry 18 of 35

File: USPT

Nov 19, 2002

US-PAT-NO: 6482629

DOCUMENT-IDENTIFIER: US 6482629 B1

TITLE: Isolated human zinc metalloproteases, nucleic acids molecules encoding said enzymes, and uses thereof

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wei; Ming-Hui	Germantown	MD		
Yan; Chunhua	Boyd's	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/219, 435/252.3, 435/320.1, 435/325, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the enzyme peptides, and methods of identifying modulators of the enzyme peptides.

23 Claims, 15 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 19. Document ID: US 6465209 B1

L6: Entry 19 of 35

File: USPT

Oct 15, 2002

US-PAT-NO: 6465209

DOCUMENT-IDENTIFIER: US 6465209 B1

TITLE: Methods of producing protein hydrolysates

DATE-ISSUED: October 15, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blinkovsky; Alexander	Davis	CA		
Brown; Kimberly	Elk Grove	CA		
Golightly; Elizabeth	Davis	CA		
Byun; Tony	Davis	CA		
Mathiasen; Thomas E.	Copenhagen			DK
Kofod; Lene V.	Uggel.o slashed.se			DK
Fujii; Mikio	Shizuoka			JP

Marumoto; Chigusa

Shizuoka

JP

US-CL-CURRENT: [435/68.1](#); [435/71.1](#), [435/71.2](#)

ABSTRACT:

The present invention relates to methods of producing protein hydrolysates, comprising adding to a proteinaceous material one or more aminopeptidase(s) having glycine releasing properties and one or more additional proteases wherein the amount of glycine produced is greater than the amount of glycine produced by the one or more additional proteases alone under the same conditions.

24 Claims, 12 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 6461850 B2

L6: Entry 20 of 35

File: USPT

Oct 8, 2002

US-PAT-NO: 6461850

DOCUMENT-IDENTIFIER: US 6461850 B2

TITLE: Isolated nucleic acid molecules encoding protease proteins, and uses thereof

DATE-ISSUED: October 8, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Beasley; Ellen M.	Darnestown	MD		
Li; Zhenya	Boys	MD		

US-CL-CURRENT: [435/226](#); [435/23](#), [435/252.3](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

10 Claims, 8 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 21. Document ID: US 6455294 B1

L6: Entry 21 of 35

File: USPT

Sep 24, 2002

US-PAT-NO: 6455294

DOCUMENT-IDENTIFIER: US 6455294 B1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: September 24, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Gan; Weiniu	Gaithersburg	MD		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/212; 435/252.3, 435/320.1, 435/325, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

9 Claims, 3 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 28

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 22. Document ID: US 6447772 B1

L6: Entry 22 of 35

File: USPT

Sep 10, 2002

US-PAT-NO: 6447772

DOCUMENT-IDENTIFIER: US 6447772 B1

TITLE: Compositions and methods relating to reduction of symptoms of autism

DATE-ISSUED: September 10, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Houston; Devin B.	Forsyth	MO		

US-CL-CURRENT: 424/94.63; 435/212, 435/225

ABSTRACT:

Methods and compositions that can reduce the symptoms of autism in a human patient comprising administering a physiologically effective amount of one or both of a purified casomorphin inhibitor selected from the group consisting of a casomorphinase and a casomorphin ligand, and a physiologically effective amount of a purified gluteomorphin inhibitor selected from the group consisting of a gluteomorphinase and a gluteomorphin ligand, to a human patient in sufficient quantities to reduce the effects of the autism. In some embodiments, the compositions and methods further comprise a physiologically effective amount of an enkephalin inhibitor, preferably an enkephalinase, and a physiologically effective amount of an endorphin inhibitor, preferably an endorphinase.

16 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 23. Document ID: US 6436689 B1

L6: Entry 23 of 35

File: USPT

Aug 20, 2002

US-PAT-NO: 6436689

DOCUMENT-IDENTIFIER: US 6436689 B1

TITLE: Isolated nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Guegler; Karl	Menlo Park	CA		
Webster; Marion	San Francisco	CA		
Yan; Chunhua	Boysds	MD		
Shao; Wei	Frederick	MD		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnstown	MD		

US-CL-CURRENT: 435/219; 435/23, 435/252.3, 435/320.1, 435/325, 435/69.1, 436/94, 536/23.2, 536/23.5

ABSTRACT:

The present invention provides amino acid sequence of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identify orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

10 Claims, 49 Drawing figures

Exemplary Claim Number: 1
Number of Drawing Sheets: 49

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 24. Document ID: US 6365391 B1

L6: Entry 24 of 35

File: USPT

Apr 2, 2002

US-PAT-NO: 6365391
DOCUMENT-IDENTIFIER: US 6365391 B1

TITLE: Isolated human serine protease, nucleic acid molecules encoding human serine protease, and uses thereof

DATE-ISSUED: April 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Webster; Marion	San Francisco	CA		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/219; 435/183, 435/212, 435/320.1, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

12 Claims, 43 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 43

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 25. Document ID: US 6344353 B1

L6: Entry 25 of 35

File: USPT

Feb 5, 2002

US-PAT-NO: 6344353
DOCUMENT-IDENTIFIER: US 6344353 B1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ye; Jane	Boyds	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/226; 435/252.3, 435/320.1, 435/6, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

10 Claims, 25 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 25

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 26. Document ID: US 6344352 B1

L6: Entry 26 of 35

File: USPT

Feb 5, 2002

US-PAT-NO: 6344352

DOCUMENT-IDENTIFIER: US 6344352 B1

TITLE: Isolated human metalloprotease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: February 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Merkulov; Gennady V.	Baltimore	MD		
Ye; Jane	Boyds	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/219; 435/212, 435/226

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

5 Claims, 19 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 27. Document ID: US 6329188 B1

L6: Entry 27 of 35

File: USPT

Dec 11, 2001

US-PAT-NO: 6329188
DOCUMENT-IDENTIFIER: US 6329188 B1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: December 11, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Yan; Xianghe	Gaithersburg	MD		
Ketchum; Karen A.	Germantown	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/212; 435/252.3, 435/320.1, 435/6, 536/23.2

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

10 Claims, 48 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 48

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 28. Document ID: US 6294368 B1

L6: Entry 28 of 35

File: USPT

Sep 25, 2001

US-PAT-NO: 6294368
DOCUMENT-IDENTIFIER: US 6294368 B1

TITLE: Isolated human metalloprotease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

DATE-ISSUED: September 25, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Merkulov; Gennady V.	Baltimore	MD		
Ye; Jane	Boyd's	MD		
Di Francesco; Valentina	Rockville	MD		
Beasley; Ellen M.	Darnestown	MD		

US-CL-CURRENT: 435/219; 435/320.1, 435/69.1, 536/23.2, 536/23.5

ABSTRACT:

The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the protease peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the protease peptides, and methods of identifying modulators of the protease peptides.

9 Claims, 23 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 29. Document ID: US 6251391 B1

L6: Entry 29 of 35

File: USPT

Jun 26, 2001

US-PAT-NO: 6251391

DOCUMENT-IDENTIFIER: US 6251391 B1

TITLE: Compositions containing dipeptidyl peptidase IV and tyrosinase or phenylalaninase for reducing opioid-related symptoms

DATE-ISSUED: June 26, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Wilkinson; Randall Eugene	Yakima	WA		
Houston; Devin B.	Forsyth	MO		

US-CL-CURRENT: 424/94.63; 435/212, 435/225

ABSTRACT:

Compositions and methods are provided to reduce opioid-related symptoms in a human patient of an exorphin selected from the group consisting of a gluteomorphin and a caseomorphin, comprising a physiologically effective amount of a purified casomorphin inhibitor selected from the group consisting of a casomorphinase and a casomorphin ligand, a physiologically effective amount of a purified gluteomorphin inhibitor selected from the group consisting of a gluteomorphinase and a

gluteomorphin ligand, and at least one of the group consisting of a physiologically acceptable carrier, adjuvant, excipient, buffer and diluent. In some embodiments, the compositions and methods further comprise a physiologically effective amount of an enkephalin inhibitor, preferably an enkephalinase, and a physiologically effective amount of an endorphin inhibitor, preferably an endorphinase. Preferably the caseomorphinase is dipeptidyl peptidase IV and the gluteomorphinase is tyrosinase or phenylalaninase.

10 Claims, 1 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 30. Document ID: US 6187578 B1

L6: Entry 30 of 35

File: USPT

Feb 13, 2001

US-PAT-NO: 6187578

DOCUMENT-IDENTIFIER: US 6187578 B1

**** See image for Certificate of Correction ****

TITLE: Carboxypeptidases and nucleic acids encoding the same

DATE-ISSUED: February 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Blinkovsky; Alexander	Davis	CA		
Berka; Randy	Davis	CA		
Rey; Michael	Davis	CA		
Golightly; Elizabeth	Davis	CA		
Klotz; Alan	Dixon	CA		
Mathisen; Thomas Erik	Copenhagen			DK
Dambmann; Claus	S.o slashed.borg			DK
Brown; Kimberly M.	Elk Grove	CA		

US-CL-CURRENT: 435/212

ABSTRACT:

The present invention relates to polypeptides having carboxypeptidase activity and isolated nucleic acid sequences encoding the polypeptides. The invention also relates to nucleic acid constructs, vectors, and host cells comprising the nucleic acid sequences as well as methods for producing the polypeptides. The present invention further relates to methods of obtaining protein hydrolysates useful as flavor improving agents.

12 Claims, 5 Drawing figures

Exemplary Claim Number: 1

Number of Drawing Sheets: 5

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Search Results - Record(s) 31 through 35 of 35 returned.

☐ 31. Document ID: US 6036983 A

Using default format because multiple data bases are involved.

L6: Entry 31 of 35

File: USPT

Mar 14, 2000

US-PAT-NO: 6036983

DOCUMENT-IDENTIFIER: US 6036983 A

TITLE: Method of obtaining protein hydrolysates

DATE-ISSUED: March 14, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nielsen; Per Munk	Hiller.o slashed.d			DK

US-CL-CURRENT: [426/53](#); [426/20](#), [426/42](#), [426/54](#), [426/56](#), [426/63](#), [426/656](#), [435/212](#),
[435/219](#), [435/68.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 32. Document ID: US 5618689 A

L6: Entry 32 of 35

File: USPT

Apr 8, 1997

US-PAT-NO: 5618689

DOCUMENT-IDENTIFIER: US 5618689 A

**** See image for [Certificate of Correction](#) ****

TITLE: Enhanced procedures for preparing food hydrolysates

DATE-ISSUED: April 8, 1997

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
McCarthy; James G.	Washington Depot	CT		
Vadehra; Dharam V.	New Milford	CT		

US-CL-CURRENT: [435/68.1](#); [426/46](#), [435/272](#)

ABSTRACT:

A comestible hydrolysate product is prepared by hydrolyzing a proteinaceous

substrate devoid of viable mesophilic microorganisms and spores in a sterile system with a sterile enzyme preparation suitable for hydrolyzing the substrate.

20 Claims, 0 Drawing figures
Exemplary Claim Number: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 33. Document ID: US 4228241 A

L6: Entry 33 of 35

File: USPT

Oct 14, 1980

US-PAT-NO: 4228241
DOCUMENT-IDENTIFIER: US 4228241 A

TITLE: Method for producing a peptidase

DATE-ISSUED: October 14, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hiraga; Hirofumi	Kanagawa			JP
Miyajima; Ryuichi	Yokohama			JP
Mitsugi; Koji	Yokohama			JP

US-CL-CURRENT: 435/212; 435/225, 435/913, 435/918

ABSTRACT:

A method is provided for producing a peptidase capable of substantially completely hydrolyzing protein into its constituent amino acids which comprises culturing a strain of filamentous fungus, belonging to one of the species Aspergillus oryzae and Aspergillus soyae and characterized in that said strain is capable of producing said peptidase, in a nutrient culture medium containing at least one substrate selected from the group consisting of a fatty acid having 14, 16, 18 or 20 carbon atoms and a derivative of said fatty acid, and recovering said peptidase from said culture medium. It is particularly effective to use a combination of a sugar ester of a fatty acid and a vegetable oil as substrates in a liquid culture medium.

9 Claims, 1 Drawing figures
Exemplary Claim Number: 1
Number of Drawing Sheets: 1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 34. Document ID: US 3645850 A

L6: Entry 34 of 35

File: USPT

Feb 29, 1972

US-PAT-NO: 3645850

DOCUMENT-IDENTIFIER: US 3645850 A

TITLE: PREPARATION OF ACID CARBOXYPEPTIDASE

DATE-ISSUED: February 29, 1972

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Ichishima; Eiji	Noda-shi			JA
Yoshida; Fumihiko	Noda-shi			JA

US-CL-CURRENT: 435/225; 435/913, 435/914, 435/917

ABSTRACT:

A new enzyme, acid carboxypeptidase, whose significant characteristics are to give high activity at the low optimum pH, i.e., pH 1.5 to 5.5, and whose substrate specificity, molecular weight and other properties are entirely different from those of already known carboxypeptidase, is prepared by cultivating organism belonging to Aspergillus to obtain the crude enzyme solution and then purifying the above-obtained enzyme solution by one or more processes which include appropriately selecting and/or combining, of fractional precipitation, solvent precipitation, dialysis, various chromatographies, gel filtration. Said enzyme thereby obtained has the great advantage of enzymatically hydrolyzing protein and peptides within a low pH range where the danger of contamination is minimized.

1 Claims, 5 Drawing figures

Number of Drawing Sheets: 4

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 35. Document ID: JP 75034631 B

L6: Entry 35 of 35

File: DWPI

Nov 10, 1975

DERWENT-ACC-NO: 1975-82601W

DERWENT-WEEK: 197550

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TITLE: Yellow koji mould peptidase - prepd. in neutral or slightly acid medium and removed by ion exchange resin

PRIORITY-DATA: 1970JP-0088335 (October 9, 1970)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 75034631 B</u>	November 10, 1975		000	

INT-CL (IPC): C07G 7/02; C12D 13/10

ABSTRACTED-PUB-NO: JP 75034631B

BASIC-ABSTRACT:

Yellow koji mould peptidase contg. little proteinase is produced, in good yield, by liq. culture of yellow koji mould at pH 5.0-7.0 and collected by treating with a weakly acidic ion exchange resin. from the non-adsorbed fraction. The yellow koji mould includes Aspergillus oryzae, Asp. sojae, Asp. flavus, Asp. parasiticus, Asp. tamarii, Asp. Clavatoflavus, Asp. flavofurcatis, Asp. subolivaceus, and Asp. avanaceus. The peptidases produced include leucinoaminopeptidase, carboxypeptidase, aminopolypeptidase, (amino)-tripeptidase, and dipeptidase.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw De
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L4 and L2	35

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☐ 1. Document ID: US 20050250154 A1

L9: Entry 1 of 44

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050250154

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050250154 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Germantown	MD	US
Ye, Jane	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/6](#); [435/226](#), [435/320.1](#), [435/325](#), [435/69.1](#), [530/388.26](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw D
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☐ 2. Document ID: US 20050249719 A1

L9: Entry 2 of 44

File: PGPB

Nov 10, 2005

PGPUB-DOCUMENT-NUMBER: 20050249719

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050249719 A1

TITLE: Enzyme treatment of foodstuffs for Celiac Sprue

PUBLICATION-DATE: November 10, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Shan, Lu	Stanford	CA	US
Bethune, Michael	Stanford	CA	US
Khosla, Chaitan	Palo Alto	CA	US
Gass, Jonathan	Stanford	CA	US

Pyle, Gail G.	Stanford	CA	US
Gray, Gary M.	Stanford	CA	US
Isaacs, Indu	Andover	MA	US
Strohmeier, Gregg	Andover	MA	US

US-CL-CURRENT: 424/94.63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 3. Document ID: US 20050181414 A1

L9: Entry 3 of 44

File: PGPB

Aug 18, 2005

PGPUB-DOCUMENT-NUMBER: 20050181414

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050181414 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: August 18, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Webster, Marion	San Francisco	CA	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 530/350, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 4. Document ID: US 20050176150 A1

L9: Entry 4 of 44

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050176150

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050176150 A1

TITLE: Mutant microorganism and method for producing peptide using the same

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kira, Ikuo	Kanagawa		JP
Yokozeiki, Kenzo	Kanagawa		JP
Suzuki, Sonoko	Kanagawa		JP

Mihara, Yasuhiro Kanagawa JP
Hirao, Yoshinori Kanagawa JP

US-CL-CURRENT: 435/488; 435/252.33

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 5. Document ID: US 20050175736 A1

L9: Entry 5 of 44

File: PGPB

Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050175736

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050175736 A1

TITLE: Carboxypeptidases and nucleic acids encoding same

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Blinkovsky, Alexander	Davis	CA	US
Berka, Randy	Davis	CA	US
Rey, Michael	Davis	CA	US
Golightly, Elizabeth	Reno	NV	US
Klotz, Alan	Indianapolis	IN	US
Mathisen, Thomas Erik	Copenhagen		DK
Dambmann, Claus	Soborg		DK

US-CL-CURRENT: 426/52; 426/53, 435/226, 435/6, 435/68.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20050158298 A1

L9: Entry 6 of 44

File: PGPB

Jul 21, 2005

PGPUB-DOCUMENT-NUMBER: 20050158298

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050158298 A1

TITLE: Novel fungal proteins and nucleic acids encoding same

PUBLICATION-DATE: July 21, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Monod, Michel	Lausanne		CH
Stocklin, Reto	Geneva		CH

Grouzmann, Eric

La Conversion

CH

US-CL-CURRENT: 424/94.63; 435/226, 435/252.3, 435/254.1, 435/320.1, 435/325,
435/69.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20050148053 A1

L9: Entry 7 of 44

File: PGPB

Jul 7, 2005

PGPUB-DOCUMENT-NUMBER: 20050148053

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050148053 A1

TITLE: Method for extraction of glycosaminoglycan from animal tissue

PUBLICATION-DATE: July 7, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ashie, Isaac	Raleigh	NC	US
Pedersen, Bent Pill	Bagsaverd		DK

US-CL-CURRENT: 435/85; 536/21, 536/53

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 8. Document ID: US 20050118610 A1

L9: Entry 8 of 44

File: PGPB

Jun 2, 2005

PGPUB-DOCUMENT-NUMBER: 20050118610

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050118610 A1

TITLE: Polypeptides having aminopeptidase activity and nucleic acids encoding same

PUBLICATION-DATE: June 2, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Blinkovsky, Alexander	Davis	CA	US
Brown, Kimberly	Elk Grove	CA	US
Golightly, Elizabeth	Davis	CA	US
Byun, Tony	Rohnert Park	CA	US
Kofod, Lene V.	Uggelose		DK

US-CL-CURRENT: 435/6; 435/226, 435/254.3, 435/320.1, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 9. Document ID: US 20050059076 A1

L9: Entry 9 of 44

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050059076

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050059076 A1

TITLE: Isolated human metalloprotease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: March 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Merkulov, Gennady V.	Baltimore	MD	US
Ye, Jane	Boysds	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 10. Document ID: US 20050059075 A1

L9: Entry 10 of 44

File: PGPB

Mar 17, 2005

PGPUB-DOCUMENT-NUMBER: 20050059075

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050059075 A1

TITLE: Isolated human zinc metalloprotease, nucleic acid molecules encoding said enzymes, and uses thereof

PUBLICATION-DATE: March 17, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wei, Ming-Hui	Germantown	MD	US
Yan, Chunhua	Germantown	MI	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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☐ 11. Document ID: US 20050042670 A1

L9: Entry 11 of 44

File: PGPB

Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050042670

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050042670 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn De
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☐ 12. Document ID: US 20040253705 A1

L9: Entry 12 of 44

File: PGPB

Dec 16, 2004

PGPUB-DOCUMENT-NUMBER: 20040253705

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040253705 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: December 16, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Guegler, Karl	Menlo Park	CA	US
Webster, Marion	San Francisco	CA	US
Yan, Chunhua	Boyd's	MD	US
Shao, Wei	Frederick	MD	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnstow	MD	US

US-CL-CURRENT: 435/226

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Drawn De
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☐ 13. Document ID: US 20040248229 A1

L9: Entry 13 of 44

File: PGPB

Dec 9, 2004

PGPUB-DOCUMENT-NUMBER: 20040248229

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040248229 A1

TITLE: Methods and kits for transferases

PUBLICATION-DATE: December 9, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Goueli, Said A.	Fitchburg	WI	US
Bulleit, Robert F.	Verona	WI	US

US-CL-CURRENT: 435/15

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 14. Document ID: US 20040242636 A1

L9: Entry 14 of 44

File: PGPB

Dec 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040242636

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040242636 A1

TITLE: Fluoropyrrolidines as dipeptidyl peptidase inhibitors

PUBLICATION-DATE: December 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Haffner, Curt Dale	Durham	NC	US
McDougald, Darryl Lynn	Durham	NC	US
Lenhard, James Martin	Durham	NC	US

US-CL-CURRENT: 514/326; 546/208

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 15. Document ID: US 20040229367 A1

L9: Entry 15 of 44

File: PGPB

Nov 18, 2004

PGPUB-DOCUMENT-NUMBER: 20040229367

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040229367 A1

TITLE: Methods for monitoring multiple gene expression

PUBLICATION-DATE: November 18, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Berka, Randy M.	Davis	CA	US
Rey, Michael W.	Davis	CA	US
Shuster, Jeffrey R.	Davis	CA	US
Kauppinen, Sakari	Smoerum		DK
Clausen, Ib Groth	Hillerod		DK
Olsen, Peter Bjarke	Copenhagen		DK

US-CL-CURRENT: 435/484; 435/254.3

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 20040203105 A1

L9: Entry 16 of 44

File: PGPB

Oct 14, 2004

PGPUB-DOCUMENT-NUMBER: 20040203105

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040203105 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: October 14, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ye, Jane	Boyds	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/69.1; 435/320.1, 435/325, 530/350, 536/23.5

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 20040171848 A1

L9: Entry 17 of 44

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171848

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040171848 A1

TITLE: Fluoropyrrolidines as dipeptidyl peptidase inhibitors

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Haffner, Curt Dale	Durham	NC	US
McDougald, Darryl Lynn	Durham	NC	US
Randhawa, Amarjit Sab	Durham	NC	US
Reister, Steven Michael	Durham	NC	US
Lenhard, James Martin	Durham	NC	US

US-CL-CURRENT: [548/517](#); [548/537](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 18. Document ID: US 20040171104 A1

L9: Entry 18 of 44

File: PGPB

Sep 2, 2004

PGPUB-DOCUMENT-NUMBER: 20040171104

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040171104 A1

TITLE: Polypeptides having dipeptidyl aminopeptidase activity and nucleic acids encoding same

PUBLICATION-DATE: September 2, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Blinkovsky, Alexander	Davis	CA	US
Brown, Kimberly	Elk Grove	CA	US
Rey, Michael W.	Davis	CA	US
Klotz, Alan	Dixon	CA	US
Byun, Tony	Davis	CA	US

US-CL-CURRENT: [435/68.1](#); [435/226](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 19. Document ID: US 20040167341 A1

L9: Entry 19 of 44

File: PGPB

Aug 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040167341

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040167341 A1

TITLE: Pyrrolidines as dipeptidyl peptidase inhibitors

PUBLICATION-DATE: August 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Haffner, Curt Dale	Durham	NC	US
McDougald, Darryl Lynn	Durham	NC	US
Randhawa, Armarjit Sab	Durham	NC	US
Reister, Steven Michael	Durham	NC	US
Deaton, David N	Durham	NC	US
Lenhard, Martin James	Durham	NC	US

US-CL-CURRENT: 548/200; 548/530

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 20. Document ID: US 20040146962 A1

L9: Entry 20 of 44

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040146962

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040146962 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Yan, Xianghe	Rockville	MD	US
Yan, Chunhua	Rockville	MD	US
Ketchum, Karen A	Rockville	MD	US
Beasley, Ellen M	Rockville	MD	US

US-CL-CURRENT: 435/23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 21. Document ID: US 20040142439 A1

L9: Entry 21 of 44

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142439

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040142439 A1

TITLE: Isolated human zinc metalloprotease, nucleic acid molecules encoding said enzymes, and uses thereof

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wei, Ming-Hui	Germantown	MD	US
Yan, Chunhua	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/183](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 22. Document ID: US 20040038896 A1

L9: Entry 22 of 44

File: PGPB

Feb 26, 2004

PGPUB-DOCUMENT-NUMBER: 20040038896

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040038896 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: February 26, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beasley, Ellen M.	Darnestown	MD	US
Li, Zhenya	Rockville	MD	US

US-CL-CURRENT: [514/12](#); [435/226](#), [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 23. Document ID: US 20040014159 A1

L9: Entry 23 of 44

File: PGPB

Jan 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040014159

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040014159 A1

TITLE: Methods and kits for transferases

PUBLICATION-DATE: January 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Goueli, Said A.	Fitchburg	WI	US

Bulleit, Robert F.

Verona

WI

US

US-CL-CURRENT: 435/15; 435/23

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 24. Document ID: US 20030215438 A1

L9: Entry 24 of 44

File: PGPB

Nov 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030215438

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030215438 A1

TITLE: Enzyme treatment of foodstuffs for celiac sprue

PUBLICATION-DATE: November 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Hausch, Felix	Langenselbold	CA	DE
Gray, Gary	Stanford	CA	US
Shan, Lu	Stanford	CA	US
Khosla, Chaitan	Palo Alto		US

US-CL-CURRENT: 424/94.63; 435/219

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 25. Document ID: US 20030211524 A1

L9: Entry 25 of 44

File: PGPB

Nov 13, 2003

PGPUB-DOCUMENT-NUMBER: 20030211524

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030211524 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: November 13, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ketchum, Karen A.	Germantown	MD	US

US-CL-CURRENT: 435/6; 435/226, 435/320.1, 435/325, 435/69.1, 435/7.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 26. Document ID: US 20030186420 A1

L9: Entry 26 of 44

File: PGPB

Oct 2, 2003

PGPUB-DOCUMENT-NUMBER: 20030186420

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030186420 A1

TITLE: Prolidase and its gene and method for producing prolidase

PUBLICATION-DATE: October 2, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ito, Kotaro	Chiba		JP
Nakahara, Takeharu	Chiba		JP
Koyama, Yasuji	Chiba		JP
Matsuda, Toshifumi	Chiba		JP
Takahashi, Tadashi	Chiba		JP
Matsushima, Kenichiro	Chiba		JP
Umitsuki, Genryou	Chiba		JP
Masuda, Tsutomu	Chiba		JP

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 27. Document ID: US 20030170227 A1

L9: Entry 27 of 44

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170227

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030170227 A1

TITLE: Compositions and methods relating to reduction of symptoms of autism

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Houston, Devin B.	Forsyth	MO	US

US-CL-CURRENT: 424/94.63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 28. Document ID: US 20030170226 A1

L9: Entry 28 of 44

File: PGPB

Sep 11, 2003

PGPUB-DOCUMENT-NUMBER: 20030170226
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030170226 A1

TITLE: Compositions and methods relating to reduction of symptoms of autism

PUBLICATION-DATE: September 11, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Houston, Devin B.	Forsyth	MO	US

US-CL-CURRENT: 424/94.63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 29. Document ID: US 20030133926 A1

L9: Entry 29 of 44

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030133926
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030133926 A1

TITLE: Compositions and methods relating to reduction of symptoms of autism

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Houston, Devin B.	Forsyth	MO	US

US-CL-CURRENT: 424/94.63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 30. Document ID: US 20030129726 A1

L9: Entry 30 of 44

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129726
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030129726 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: July 10, 2003

INVENTOR - INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Germantown	MD	US
Ye, Jane	Germantown	MD	US
Francesco, Valentina Di	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/226](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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L7 and dipeptidase

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☐ 31. Document ID: US 20030129700 A1

L9: Entry 31 of 44

File: PGPB

Jul 10, 2003

PGPUB-DOCUMENT-NUMBER: 20030129700

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030129700 A1

TITLE: Isolated human zinc metalloprotease, nucleic acid molecules encoding said enzymes, and uses thereof

PUBLICATION-DATE: July 10, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wei, Ming-Hui	Germantown	MD	US
Yan, Chunhua	Germantown	MD	US
Francesco, Valentina Di	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/69.1](#); [435/183](#), [435/320.1](#), [435/325](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWC	Draw D
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☐ 32. Document ID: US 20030054489 A1

L9: Entry 32 of 44

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030054489

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030054489 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins and uses thereof

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ye, Jane	Boys	MD	US
Di Francesco, Valentina	Rockville	MD	US

Beasley, Ellen M.

Darnestown

MD

US

US-CL-CURRENT: 435/69.1; 435/226, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 33. Document ID: US 20030036167 A1

L9: Entry 33 of 44

File: PGPB

Feb 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030036167

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030036167 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: February 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beasley, Ellen M.	Darnestown	MD	US
Li, Zhenya	Rockville	MD	US

US-CL-CURRENT: 435/69.1; 435/226, 435/320.1, 435/325, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 34. Document ID: US 20030017574 A1

L9: Entry 34 of 44

File: PGPB

Jan 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030017574

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030017574 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: January 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 35. Document ID: US 20020142440 A1

L9: Entry 35 of 44

File: PGPB

Oct 3, 2002

PGPUB-DOCUMENT-NUMBER: 20020142440

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020142440 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: October 3, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ye, Jane	Boyd	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/325, 435/6, 435/69.1, 435/7.21, 536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 36. Document ID: US 20020137184 A1

L9: Entry 36 of 44

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137184

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137184 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and use thereof

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ye, Jane	Boyd	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 37. Document ID: US 20020137183 A1

L9: Entry 37 of 44

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137183

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137183 A1

TITLE: Isolated human metalloprotease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Merkulov, Gennady V.	Baltimore	MD	US
Ye, Jane	Boyds	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/226](#); [435/320.1](#), [435/325](#), [435/69.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 38. Document ID: US 20020137180 A1

L9: Entry 38 of 44

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137180

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020137180 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ye, Jane	Boyds	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/226](#); [435/325](#), [435/69.1](#), [435/7.92](#), [536/23.2](#), [800/8](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 39. Document ID: US 20020137179 A1

L9: Entry 39 of 44

File: PGPB

Sep 26, 2002

PGPUB-DOCUMENT-NUMBER: 20020137179
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020137179 A1

TITLE: ISOLATED HUMAN PROTEASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
PROTEASE PROTEINS, AND USES THEREOF

PUBLICATION-DATE: September 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gan, Weiniu	Gaithersburg	MD	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 40. Document ID: US 20020115186 A1

L9: Entry 40 of 44

File: PGPB

Aug 22, 2002

PGPUB-DOCUMENT-NUMBER: 20020115186
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020115186 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human
protease proteins, and uses thereof

PUBLICATION-DATE: August 22, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Webster, Marion	San Francisco	CA	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/69.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 41. Document ID: US 20020086400 A1

L9: Entry 41 of 44

File: PGPB

Jul 4, 2002

PGPUB-DOCUMENT-NUMBER: 20020086400
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020086400 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: July 4, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Zhu, Shiaoping	Gaithersburg	MD	US
Guegler, Karl	Menlo Park	CA	US
Webster, Marion	San Francisco	CA	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: 435/226; 435/320.1, 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2, 800/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 42. Document ID: US 20020081704 A1

L9: Entry 42 of 44

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020081704
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020081704 A1

TITLE: ISOLATED NUCLEIC ACID MOLECULES ENCODING HUMAN PROTEASE PROTEINS, AND USES THEREOF

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Guegler, Karl	Menlo Park	CA	US
Webster, Marion	San Francisco	CA	US
Yan, Chunhua	Boysds	MD	US
Shao, Wei	Frederick	MD	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnstow	MD	US

US-CL-CURRENT: 435/226; 435/325, 435/6, 435/69.1, 435/7.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 43. Document ID: US 20020072106 A1

L9: Entry 43 of 44

File: PGPB

Jun 13, 2002

PGPUB-DOCUMENT-NUMBER: 20020072106

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020072106 A1

TITLE: Isolated human protease proteins, nucleic acid molecules encoding human protease proteins, and uses thereof

PUBLICATION-DATE: June 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Beasley, Ellen M.	Darnestown	MD	US
Li, Zhenya	Boysds	MD	US

US-CL-CURRENT: [435/226](#); [435/320.1](#), [435/325](#), [435/6](#), [435/69.1](#), [435/7.1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 44. Document ID: US 20020055163 A1

L9: Entry 44 of 44

File: PGPB

May 9, 2002

PGPUB-DOCUMENT-NUMBER: 20020055163

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020055163 A1

TITLE: ISOLATED HUMAN SERINE PROTEASE, NUCLEIC ACID MOLECULES ENCODING HUMAN SERINE PROTEASE, AND USES THEREOF

PUBLICATION-DATE: May 9, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Webster, Marion	San Francisco	CA	US
Ketchum, Karen A.	Germantown	MD	US
Di Francesco, Valentina	Rockville	MD	US
Beasley, Ellen M.	Darnestown	MD	US

US-CL-CURRENT: [435/226](#); [435/325](#), [435/6](#), [435/69.1](#), [514/1](#), [536/23.2](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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